# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 04/06/2022 10:32 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 01/20/2022 09:34 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 32272 | Expiration Date: | 09/30/2022 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124791 | -1 | 1.44 | 124724 | 1.41 |
| Blue | F | SSC | 125000 | 126233 | 0 | 2.63 | 126698 | 2.5 |
| Blue | E | FITC | 13602 | 13223 | -3 | 2.3 | 372 | 13.63 |
| Blue | D | PE | 24891 | 24399 | -2 | 1.66 | 580 | 10.93 |
| Blue | B | PerCP-Cy5-5 | 33972 | 33227 | -3 | 3.05 | 952 | 15.09 |
| Blue | A | PE-Cy7 | 22865 | 23037 | 0 | 4.96 | 476 | 31.07 |
| Red | C | APC | 47198 | 46704 | -2 | 2.6 | 1610 | 11.6 |
| Red | A | APC-Cy7 | 26454 | 25748 | -3 | 3.03 | 733 | 12.01 |
| Violet | B | V450 | 6737 | 6460 | -5 | 3.44 | 449 | 11.33 |
| Violet | A | V500 | 29317 | 28051 | -5 | 2.88 | 959 | 8.36 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 23857 | 2.46 | 563 | 28 | N/A | N/A | Pass |
| Blue | F | SSC | 56634 | 2 | 522 | 1 | N/A | N/A | Pass |
| Blue | E | FITC | 55 | 57.02 | 490 | 6 | 0.0439 | 214 | Pass |
| Blue | D | PE | 112 | 39.41 | 493 | 7 | 0.3324 | 246 | Pass |
| Blue | B | PerCP-Cy5-5 | 151 | 43.36 | 586 | 7 | 0.0196 | 131 | Pass |
| Blue | A | PE-Cy7 | 79 | 79.43 | 631 | 10 | 0.0215 | 0 | Pass |
| Red | C | APC | 336 | 26.13 | 575 | 3 | 0.0273 | 173 | Pass |
| Red | A | APC-Cy7 | 135 | 35.74 | 552 | 1 | 0.0070 | 1955 | Pass |
| Violet | B | V450 | 76 | 48.08 | 450 | 0 | 0.0639 | 2833 | Pass |
| Violet | A | V500 | 114 | 29.65 | 469 | 0 | 0.0236 | 548 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 04/06/2022 10:32 AM |
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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.64 - 71.46 | N/A | N/A | -31.93 | -31.73 | 1.04 |
| Blue | 20.34 | 16.28 - 24.42 | 1.28 | 1.03 - 1.55 | 0.00 | 0.00 | 1.43 |
| Red | 14.81 | 13.90 - 20.86 | N/A | N/A | 30.16 | 30.36 | 1.21 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.78

## Threshold

Threshold (FSC): 9559

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments